

Title (en)

DC motor control method and apparatus for operating the method

Title (de)

Verfahren zum Ansteuern eines Gleichstrommotors und Vorrichtung zur Durchführung dieses Verfahrens

Title (fr)

Méthode pour alimenter un moteur à courant continu et appareil pour la mise en oeuvre de cette méthode

Publication

EP 0790699 B1 20060621 (DE)

Application

EP 97102146 A 19970211

Priority

DE 19605834 A 19960216

Abstract (en)

[origin: EP0790699A2] The method involves controlling a dc motor (M) by means of a control circuit (ST). This circuit includes a high-side transistor switch (T1) between each motor terminal (Out1) and the positive terminal of the operating voltage. It also has a low-side transistor switch (T3) between each motor terminal and the negative supply voltage terminal. A diode (D1-D4) is connected in parallel to the switching path of each transistor switch (T1-T4). The diodes (D1-D4) are conductive in the direction from the negative supply voltage terminal to the positive supply terminal. A protective circuit (S1) is provided for each motor terminal to prevent damaging substrate currents. The high-side transistor switch (T1) or the low-side transistor switch (T3) associated with one of the motor terminals (Out1), or both transistor switches (T1,T3) is/are controlled or regulated to conduct, via the protective circuit (S1) when and for as long as the potential at this motor terminal exceeds a predetermined value.

IPC 8 full level

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CPC (source: EP US)

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EP 0790699 A2 19970820; **EP 0790699 A3 19971029**; **EP 0790699 B1 20060621**; DE 19605834 A1 19970821; DE 59712679 D1 20060803; KR 100472107 B1 20050608; KR 970063887 A 19970912; US 5903121 A 19990511

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